# Telephony

JAN 10 1937 LIBRARY

A JOURNAL OF PROGRESS AND DEVELOPMENTS IN THE TELEPHONE INDUSTRY

INDEX TO VOLUME 112

## JANUARY 2 to JUNE 26, 1937

BY TELEPHONY PUBLISHING CORPORATION

608 S. Dearborn Street, Chicago

Immediately following the title of the articles in this index will be found the date of the issue, followed by the page number. Articles designated by an asterisk (*) are illustrated. Personal items, small news items and manufacturers' items are not indexed.

A

**Accounting:**
- FCC accounting system an aid to public relations,* by E. R. Hannibal, Mar. 20, p. 15.
- Nebraska companies cited on accounting methods, Feb. 6, p. 35; commission to revise accounting system, June 19, p. 32.
- FCC issues amendments to its accounting order, Jan. 23, p. 26.
- Rural electrification and telephone companies (Wis.), May 22, p. 22.
- Trends in regulation emphasize importance of accurate records, by John H. Porter, June 5, p. 7.

**Advertising:**
- Do people read telephone directory advertising?* by Philip Kendall, April 3, p. 7.
- Letters to subscribers productive of results, Feb. 6, p. 18.
- Promotion program aids directory advertising sales,* by Dwight Abbott, April 24, p. 26.

**Annual review:** Of the telephone industry,* by Stanley R. Edwards, Jan. 2, p. 9.

Asset or liability to your company*? by Anna Hammen, Jan. 16, p. 9.

**Associations:**
- J. H. Agee elected head of national association,* Feb. 20, p. 9.
- National association selects Louis Pitcher executive officer,* April 24, p. 9.
- National association's seven-point position on depreciation, May 22, p. 15.
- New Independent association formed in Wisconsin, Feb. 27, p. 15; organization meeting, Mar. 13, p. 38.
- The national association and national affairs,* by J. H. Agee, May 8, p. 9.
- What do we do*? by J. C. Crowley, Jr., Feb. 13, p. 9.

B

**Bell:**
- A. T. & T. earnings cover full dividend, Jan. 30, p. 25.
- A. T. & T. Co. makes best annual showing since 1929,* Mar. 6, p. 22.
- Bell System to spend $300,000,000 on plant, Jan. 16, p. 18.
- Bell signs contract for New York fair, June 19, p. 30.
- Bell telephones surpass previous high in 20 states, May 8, p. 24.
- Changes in personnel of Bell Telephone Laboratories, Feb. 6, p. 16.
- CIO opens drive to unionize Bell employes, April 17, p. 38.
- Largest construction project to be approved by FCC, June 19, p. 31.
- Second largest telephone power plant in Detroit, Feb. 13, p. 22.

**Bell investigation:**
- Hearings on Bell sound recording equipment, Jan. 2, p. 28.
- FCC hears Bell policy on communications research, Jan. 9, p. 24.
- FCC engineer charges A. T. & T. plant overbuilt, Jan. 16, p. 13.
- Bell pension funds under fire before FCC, Jan. 23, p. 24.
- President asks $350,000 more for Bell probe, Jan. 23, p. 25.
- Bell publicity methods before FCC, Feb. 6, p. 30.
- Bell interest and dividend practices, Feb. 13, p. 14.
- Western Electric costs criticized by FCC witness, Feb. 27, p. 30.
- FCC expert estimates A. T. & T. 1937 earnings, Mar. 6, p. 37.
- FCC hearing, Mar. 27, p. 24; April 3, p. 18.
- FCC bell probe takes up patents, April 17, p. 46.
- Final hearings in FCC investigation will begin soon, June 12, p. 28.
- Bell depreciation attacked in FCC probe, June 26, p. 13.

**Book reviews:**
- Electrical characteristics of power and telephone transmission lines, by Ferris W. Norris and Lloyd A. Bingham, Feb. 13, p. 29.
- Electrical engineers' handbook, rewritten by Harold Pender and Knox McIlwain, June 12, p. 36.
- "Federal Justice" discusses telephones, written by Homer Cummings and Carl McFarland, Feb. 13, p. 20.
- Federal tax law with explanatory digest, Feb. 13, p. 29.

**Booths:** Deluxe telephone booth with sound absorbent lining (Burgess),* Jan. 2, p. 26.

**Buried wire:** Installation of buried wire on mountain (Ore.), Mar. 6, p. 33.

C

**California:** Telephone men hold meeting,* May 8, p. 11.

**Commercial:**
- Commercial survey needs of moderate-sized telephone companies, by George J. Eberle: Part IV,* Jan. 9, p. 7; fifth and concluding article, Jan. 23, p. 7.
- Rural collections,* by Zina Ackmann, Jan. 30, p. 7.
- Why the commercial department? by H. Spahnle, May 1, p. 9.

**Commission cases and rulings:**
- Alabama subscriber files complaint against handset charge, Jan. 23, p. 31.
- Alabama handset charge waived after two years' service, Feb. 6, p. 31.
- Alabama long distance intrastate rates reduced, May 29, p. 24.
- Appraisal begun of Indiana Bell properties, Jan. 16, p. 32.
- Appropriation for Nebraska commission questioned, April 10, p. 33; May 8, p. 39; bill allows $10,000, May 15, p. 35.
- Approves financing by Mt. Vernon (Ohio) company, Jan. 2, p. 30; stock issue granted, Feb. 6, p. 36.
- Arkansas commission orders hotel call reduction, Jan. 16, p. 33.
- Bay state cuts handset charge period, Feb. 27, p. 32.
- Bell of Canada reduces telephone rates, April 10, p. 30.
- Bickley nominated to Wisconsin commission, Feb. 13, p. 26; rejected, Feb. 27, p. 31.
- Change in filing of annual reports in Nebraska, May 29, p. 31.
- Companies ordered to list legal fees (N. Y.), Jan. 30, p. 26.
- Complaint of St. Louis, Mo., answered by Bell, Jan. 9, p. 28.
- Complaint charges inadequate service in Missouri, Mar. 27, p. 28.
- Complaint asks for Nebraska rate investigation, April 24, p. 29.
- Complaint of Ohio residents dismissed, May 15, p. 36.
- Conference method successful in reducing rates (Neb.), April 24, p. 30.
- Connecticut limits handset charge to two years, April 10, p. 30. (See also June 12, p. 29).
- Corporate name changed of Nebraska Continental company, Jan. 2, p. 35.
- District of Columbia rates to be probed, April 24, p. 29.
- File report on valuation of Bluffton (Ohio) company, Feb. 6, p. 35.
- Florida handset charge 15 cents after two years' usage, April 10, p. 31.
- Handset charge reduced in Philadelphia, Pa., Jan. 23, p. 31.
- Hugh W. Cargo, Chicago engineer, employed by Nebraska commission, Feb. 13, p. 32.
- Incoming and outgoing commission members clash (Neb.), Jan. 16, p. 31.
- Increases authorized for common battery service (Okla.), June 26, p. 28.
- Lincoln (Neb.) company reduces handset rate, Jan. 9, p. 29.
- Long distance rate cut in California expected, June 19, p. 33.
- McDonald resigns from Wisconsin commission, Jan. 16, p. 36.
- Metered telephone service claimed discriminatory (Neb.), Mar. 13, p. 33.
- Minnesota handset rates and regulations revised, Jan. 30, p. 26.
- Mississippi extra handset charge ordered reduced, Feb. 20, p. 28.
- Missouri company files reduced rates, June 26, p. 29.
- Nebraska commission authorizes increases, April 10, p. 30.
- Nebraska companies cited on accounting methods, Feb. 6, p. 35.
- Nebraska commission to revise accounting system, June 19, p. 32.
- Nebraska complaint filed claiming invasion of territory, May 22, p. 35.
- Nebraska orders inquiry into Bell rates and service, May 29, p. 25; formal order, June 5, p. 30.
- New Nebraska commission sets aside 1936 Bell depreciation order, Jan. 16, p. 35.
- New Ohio company requests purchase authority, June 26, p. 27.
- New rate tariffs filed by two New York companies, April 24, p. 29.
- New Pennsylvania commission replaces regulatory body, April 10, p. 33; April 17, p. 46.
- New secretary of Nebraska commission is G. E. Truman, Jan. 2, p. 30.
- New Jersey handset charge to be eliminated after 1937, Mar. 6, p. 41.
- New York companies reduce short-haul tolls, Feb. 6, p. 31.
- New York Bell hotel call rates to be probed, May 22, p. 35; declared "irregular," June 5, p. 32.
- New York commission asserts jurisdiction over classified directory, June 19, p. 32.
- New York handset charge attacked, Jan. 23, p. 31; Jan. 30, p. 26; charge limited, Feb. 13, p. 25; mayor asks removal of charge entirely, Mar. 6, p. 43.
- New York toll rate complaint satisfactorily settled, June 12, p. 39.
- No intrastate toll rate cut in Wisconsin, Jan. 23, p. 32.
- Northwestern Bell's 1936 depreciation rate reduced, Feb. 6, p. 31.
- Northwestern Bell cited on 1937 depreciation rate, May 29, p. 24.
- Ohio Associated files brief in boundary case, April 3, p. 35.
- Ohio Bell to file new Cleveland tariffs, Jan. 16, p. 33.
- Ohio Bell reduced rates go into effect, April 10, p. 32.
- Ohio Bell rate changes in recent years, April 3, p. 36.
- Ohio commission ruling in re FCC accounting, May 1, p. 32.

Ohio handset charge limited to 18 months, April 10, p. 31.
Ohio toll compensation controversy settled, Jan. 9, p. 28.
Oklahoma commission denies statewide inquiry request, May 29, p. 25.
Oregon company asks toll increase to improve service, April 3, p. 35.
Pennsylvania Bell reduces handset charge, Feb. 27, p. 32.
Pennsylvania Bell ordered to make reparation, Mar. 13, p. 33.
Permit denied company to operate at Lebanon, Mo., Mar. 27, p. 28.
Ralph Hanna new public counselor of Indiana commission, Mar. 6, p. 44.
Rate fixed for joint service between Ohio exchanges, June 5, p. 33.
Rate increases for Hammond (Minn.) exchange, June 19, p. 35.
Rate revisions asked by Nebraska company, Mar. 6, p. 43.
Reduced charges for Dallas, Texas, subscribers, Jan. 23, p. 29.
Remedies recommended on Ohio commission, Mar. 6, p. 43.
Report recommends revision of rates (Ohio), May 29, p. 32.
Rhode Island handset charge on carpet, Jan. 16, p. 38; Jan. 23, p. 31; Mar. 6, p. 41; May 8, p. 36.
Refunds completed; Ohio rate case closed, April 17, p. 46.
Schaber, new chairman of Ohio commission, Mar. 27, p. 32.
Seasonal rates cut in New Hampshire, April 10, p. 30.
Second rate reduction announced in Delaware, Feb. 6, p. 31.
Secretary G. E. Truman named also general counsel of Nebraska commission, Feb. 13, p. 32.
Service complaint filed against Ohio companies, Mar. 6, p. 44.
Service poor; Nebraska commission asked to intervene, Feb. 13, p. 32.
Subscriber wishes service from another company (Wis.), June 12, p. 40.
Sues commission to institute toll rates (S. C.), June 5, p. 35.
Tennessee commission to conduct rate inquiry, Jan. 23, p. 29; to seek rate cuts, May 1, p. 33.
Tennessee handset charge limited to 18 months, Mar. 13, p. 31.
Two-party service in Durham, N. C., Jan. 2, p. 30.
West Virginia limits handset charge, April 10, p. 31.
Wisconsin commission asks Bell toll rate report, Feb. 6, p. 36.
Wisconsin commissioner confirmed by Senate, Mar. 6, p. 44.
Wisconsin Telephone Co. asks to pass on new surcharge tax to public, Mar. 13, p. 31; hearings, Mar. 27, p. 26; June 19, p. 33.
Wisconsin statewide rate investigation ordered, April 3, p. 18.

**Communication:**
Communication for emergency power system operation, by Wm. R. Hamilton, Mar. 20, p. 9.
Mackay charges monopoly in favor of R. C. A., May 22, p. 35.
Short-wave radio communication in British Columbia,* by B. R. Tupper, Mar. 27, p. 9.

**Communications Act:** By Thad H. Brown, May 15, p. 9.

**Conventions:**
31st annual convention of North Dakota association,* June 19, p. 24.
California telephone men hold meeting,* May 8, p. 11.
Diversified interests keep Ohio telephone people active, May 1, p. 13.
Hoosiers flock to state meeting,* by Stanley R. Edwards, May 22, p. 18.
Kansas' 37th convention best in years,* May 15, p. 18.
Missourians are shown "whys and wherefores,'* by Stanley R. Edwards, June 5, p. 15.
Oklahomans hold biggest assembly of telephone folk,* April 24, p. 17.
Progress, keynote in Iowa,* by Stanley R. Edwards, April 24, p. 13.
Sequence worked out for state convention dates, June 26, p. 24.
Taxes of various kinds discussed by Minnesotans,* by Stanley R. Edwards, Jan. 30, p. 11.
Telephone industry progressive in Wisconsin * by Stanley R. Edwards, May 1, p. 20.
Telephone problems of Empire state (N. Y.),* by Stanley R. Edwards, June 12, p. 16.
Telephone prospects and problems in Nebraska,* by H. T. Dobbins, Feb. 20, p. 14.
Texans discuss new problems,* April 3, p. 12.
Two-day meeting held of Pennsylvania telephone people,* May 29, p. 13.

**Converters:**
Care and adjustment of frequency converters,* by Harry Chapman, Jan. 30, p. 16.

**Costs:**
Minnesota companies to discuss rising costs, May 15, p. 26.
The rising tide of prices,* Jan. 16, p. 14.

**Court cases and rulings:**
Anti-trust suits against Bell dismissed, Feb. 13, p. 25; May 15, p. 32.
Applicant for service must provide right of way (Pa.), April 10, p. 32.
Asks $50,000; alleges repeated conversation, Jan. 23, p. 32.
Asks ruling on status of workmen's compensation court (Neb.), May 29, p. 33.
Charges New York company unlawfully entered property; sues, June 19, p. 35.
Compensation case taken under advisement (Neb.), June 19, p. 23.
Claim of confiscation not proved, court rules; Southern Bell rate cut valid (La.), Mar. 20, p. 29.
Commission powers is question before Nebraska Supreme court, Feb. 27, p. 33.
Commission's rates for water held confiscatory, June 5, p. 36.
Company not liable for death by lightning, Mar. 13, p. 29.
Contract not filed with commission is void (Ohio), June 5, p. 37.
Court hearing on Southwestern Bell's suit (Ark.), April 3, p. 35.
Doctor sues New York Telephone Co. to recover $3.85 overcharges, Mar. 13, p. 33; wins suit, Mar. 27, p. 25; court refuses to set aside ruling, May 8, p. 40.
Doctor sues company for refusing service (Ill.), June 5, p. 18.
Examining physician ruled independent contractor, April 17, p. 48.
Gray Pay Station patent infringement suit, May 29, p. 24; June 5, p. 29; case decided in favor of Western Electric, June 12, p. 34.
Greyhound objects to listing in directory, Jan. 9, p. 29.
Holds historical cost not a fair rate base, May 29, p. 25.
Illegal use of telephones suspected; installation enjoined (Texas), June 5, p. 36.
Injunction asked against small Ohio mutual company, April 3, p. 37.
Is freezing of hands of workman an accident? April 24, p. 30.
Illinois utilities sales tax unconstitutional, Feb. 20, p. 27.
Iowa Supreme Court remands Allerton case, Feb. 13, p. 26.
Judgment upheld against service denial on fire call (Wis.), Feb. 20, p. 29.
Mandate orders insurance company to defend suit (Neb.), June 5, p. 36.
Mansfield (Ohio) company appeals to supreme court, Mar. 27, p. 28; loses, April 10, p. 33.
Maryland Bell company indicted on race bet charge, Feb. 27, p. 30.
Missouri Supreme Court rules on depreciation reserve, April 17, p. 49.
Pacific T. & T. Co. protests assessments, June 19, p. 35.
Pole properly placed; not a public nuisance (Tenn.), June 19, p. 33.
Professors assisting in Ohio Bell rate case to be paid, orders Ohio Supreme Court, June 26, p. 27.
New trial upheld in Rhode Island damage suit, Mar. 13, p. 32.
New York Bell loses in toll compensation case with Jamestown (N. Y.) company,* Feb. 27, p. 9.
Pole suit appealed to Arkansas Supreme Court, April 3, p. 37.
Reverses order holding teletype is gambling device (Pa.), May 29, p. 32.
Right to operate in Jesse, Okla., upheld by supreme court, May 15, p. 35.
Sentenced to penitentiary for coin-box stealing, Mar. 13, p. 33.
St. Paul, Minn., rate cut upheld by court, June 12, p. 28.
Seeks to enjoin selling of advertising in Indiana directory, June 12, p. 40.
"Shocking language" over telephone; jailed and fined, April 10, p. 35.
Southern Bell tax suits dismissed, April 10, p. 33.
Southwestern Bell wins in Little Rock, Ark., toll case, May 15, p. 32.
Suit on extra listing unauthorized by subscriber, taken under advisement (Mass.), June 26, p. 28.
Sustains jurisdiction of Kentucky commission, May 8, p. 39.
Telephone directory suit appealed to Kansas court, May 29, p. 31.
Telephones seized in gambling ordered forfeited (Mass.), Mar. 13, p. 33.
U. S. Supreme Court rules against Ohio commission in Bell case, May 1, p. 18; May 8, p. 30; May 15, p. 22.
Washington state tax law held unconstitutional, Feb. 13, p. 33.
Wisconsin Supreme Court holds ordinance void, Feb. 20, p. 28.
Wrong directory number; sues company (N. C.), June 26, p. 28.

D

**Data sheets:** "Telephony's" Engineering Data, by B. C. Burden, Jan. 2, p. 34; Jan. 9, p. 30; Jan. 16, p. 34; Jan. 23, p. 30; Jan. 30, p. 30; Feb. 6, p. 34; Feb. 13, p. 30; Feb. 20, p. 30; Feb. 27, p. 34; Mar. 6, p. 42; Mar. 13, p. 34; Mar. 20, p. 30; Mar. 27, p. 22; April 3, p. 34; April 10, p. 34; April 17, p. 54; April 24, p. 34; May 1, p. 30; May 8, p. 38; May 15, p. 34; May 29, p. 30; June 5, p. 34; June 12, p. 38; June 19, p. 34; June 26, p. 30.

**Depreciation:**
Bell depreciation attacked in FCC probe, June 26, p. 13.
Missouri Supreme Court rules on depreciation reserve, April 17, p. 49.
National association's seven-point position on depreciation, May 22, p. 15.
New Nebraska commission sets aside 1936 Bell depreciation order, Jan. 16, p. 35; reduces rate, Feb. 6, p. 31.
Northwestern Bell cited on 1937 depreciation rate, May 29, p. 24.

**Directory:**
Do people read telephone directory advertising?* by Philip Kendall, April 3, p. 7.
Greyhound objects to listing in directory, Jan. 9, p. 29.
New York commission asserts jurisdiction over classified directory, June 19, p. 32.
Wrong directory number; sues company (N. C.), June 26, p. 28.

E

**Editorial:** Labor and the telephone field, May 8, p. 13.

F

**Federal Communications Commission:**
A. T. & T. Co. rate inquiry by FCC, see "Bell investigation."
Additional $350,000 obtained for Bell probe, Feb. 27, p. 30.
Adopts amendment to rule 101.7, Mar. 27, p. 24.
Bell rate and research department planned by FCC, Feb. 6, p. 30.
Commissioner Stewart retires this month, June 5, p. 30.
Counsel of FCC in general law practice, Jan. 16, p. 32.
FCC issues amendments to its accounting order, Jan. 23, p. 26.
FCC accounting system an aid to public relations,* by E. R. Hannibal, Mar. 20, p. 15.
FCC examiner's report on Poteau, Okla., case, Mar. 6, p. 38.
FCC jurisdiction involved in Texas toll line construction, Mar. 27, p. 24.
Hearing on FCC control of Jamestown (N. Y.) company, Jan. 16, p. 32; asks strengthening of FCC report on control of Jamestown company, June 12, p. 28.
Iowa man (Thos. J. Slowie) appointed secretary of FCC, May 8, p. 36.
Mackay charges monopoly in favor of R. C. A., May 22, p. 35.
Rehearing denied in Rochester (N. Y.) case, Feb. 6, p. 30.
Possible FCC legislative recommendations, Jan. 30, p. 26.
Prall again chairman of the FCC, Mar. 20, p. 29.
President's reorganization plan includes FCC, Jan. 23, p. 28.
Second annual report of FCC issued, Jan. 23, p. 28.
Southwestern Bell reduces interstate rates, May 8, p. 37.
Special Counsel Becker resigns, Feb. 27, p. 30.
Telegraph and radio rates reduced, May 8, p. 37; overnight telegraph rates cut, May 29, p. 24.
Thad H. Brown in charge of FCC study, June 5, p. 30.
To conduct hearing on Pennsylvania transfer, May 1, p. 32.
Valparaiso, Ind., case held up pending sale, Mar. 6, p. 37.

**Financial:**
A. T. & T. Co. makes best annual showing since 1929.* Mar. 6, p. 22.
California company establishes station high, May 15, p. 31.
Carolina T. & T. Co. has good year, Feb. 6, p. 22.
General Telephone Corp. nets $1.58 on common stock, Mar. 20, p. 24.
General Telephone Corp. recovered 47 per cent of telephones, June 12, p. 32.
Illinois Bell's annual report, Feb. 6, p. 23.
Jamestown (N. Y.) Telephone Corp. issues report for 1936, May 15, p. 29.
Lincoln (Neb.) company gained 1142 stations last year, Feb. 6, p. 23.
Manitoba Telephone System's annual report, June 12, p. 32.
Meadville (Pa.) company makes good showing, June 12, p. 33.
New England Bell shows increased net, Feb. 20, p. 20.
New York Bell earns common stock dividend, May 29, p. 29.
Northwestern Bell has net increase for 1936, Feb. 6, p. 23.
Pacific Bell surpasses former station peak, Feb. 20, p. 25.
Peoples Telephone Corp. has biggest station gain, June 12, p. 24.
Saskatchewan system reports gain in stations, April 3, p. 17.
Southern Bell reports 1936 increase, Feb. 20, p. 20.
Southwestern Bell reports business improvements, April 3, p. 17.
Telephone Bond & Share Co.'s annual report, Mar. 20, p. 25.

En620.5
&T233

Trustee files statement of Kansas United Companies, April 17, p. 16.
West Coast company reports good year, May 29, p. 28.
Western Electric has best year since 1931, April 17, p. 52.

**Fire-fighting:**
Farmers suffer more when homes catch fire, Feb. 20, p. 34.
Nebraska bill approves rural purchase of fire-fighting equipment, June 19, p. 36.
Telephone did its part; no fire-fighting equipment, Feb. 13, p. 22.

**Fire insurance credits:** To rural subscribers,* June 26, p. 7.

**Flood prevention:** Stopping flood damage to exchange* (Conn.), April 17, p. 23.

**Floods:**
Indiana Bell repairing telephone flood damage, Feb. 20, p. 10.
Long distance service in flood areas, Jan. 30, p. 22.
The great flood in the Ohio Valley,* Feb. 6, p. 9; Feb. 13, p. 18.

**Footometer:** For pole line measuring, April 17, p. 51.

**Foreign:**
Equipment interconnection in Ciudad Trujillo, Dominican Republic,* by H. P. Mahoney, Feb. 20, p. 22.
Foreign "travelogue to telephone friends (Montreal),* by John H. Agee, June 26, p. 10.
Lithuanian capital has modern telephone equipment,* by W. G. Taylor, Mar. 13, p. 24.
Mexican T. & T. seeks injunction against fine, Jan. 9, p. 29.
Operators know subscribers by voices in Albania, June 19, p. 30.
Radio telephone service available to China, June 5, p. 27; June 19, p. 27.

**Franchises:**
New 18-year francise voted in Dallas, April 24, p. 29.
Permit denied company to operate at Lebanon, Mo., Mar. 27, p. 28.

G

**Gambling:**
Pennsylvania court reverses order holding teletype is gambling device, May 29, p. 32.
Telephone seized in gambling ordered forfeited (Mass.), Mar. 13, p. 33.
Maryland Bell company indicted on race bet charge, Feb. 27, p. 30.

**Guying:** The line,* by Robert W. Savage, April 17, p. 26.

**Gray Pay Station:** Hearings begun in Gray Pay Station patent infringement suit. May 29, p. 24; June 5, p. 29; Gray Pay Station loses suit, June 12, p. 34.

H

**Handsets:** See "Commission cases and rulings."

**Hotel calls:**
Arkansas commission orders hotel call reduction, Jan. 16, p. 33.
New York Bell hotel call rates to be probed, May 22, p. 35; declared "irregular," June 5, p. 32.

I

**Independent Pioneers:** 17th anniversary of,* by L. Berry, June 19, p. 22.

**In the nation's capital:** By Francis X. Welch, refer to "Authors' Index."

**Indiana:** Hoosiers flock to state meeting,* by Stanley R. Edwards, May 22, p. 18.

**Iowa:** Progress, keynote in Iowa,* (conv.) by Stanley R. Edwards, April 24, p. 13.

K

**Kansas:**
A modern telephone plant at Burlington,* June 19, p. 14.
37th convention best in years,* May 15, p. 18.
Kellogg Switchboard & Supply Co.'s new million-dollar factory and offices,* May 29, p. 26.

L

**Labor:**
CIO opens drive to unionize Bell employes, April 17, p. 38.
Labor and the telephone field (edit.), May 8, p. 13.
Leich Sales Corp. organized,* June 12, p. 30.

**Legislation:**
Appropriation for Nebraska commission questioned, April 10, p. 33; May 8, p. 39; bill specifies $10,000, May 15, p. 35.
Ask Minnesota legislature for funds to finance rate probes, June 26, p. 27.
Bills may change status of Nebraska commission, Feb. 13, p. 32.
Companies mildly affected by Nebraska legislation, May 8, p. 39; June 5, p. 33.
Legislative bills not sponsored by commission (Neb.), Feb. 27, p. 32.
Local appraisals for taxation opposed (Mass.), Mar. 27, p. 27.
Nebraska bill proposes wider commission control, Feb. 13, p. 31.
Nebraska bill approves rural purchase of fire-fighting equipment, June 19, p. 36.
Nebraska committee recommends passage of bill, April 3, p. 15; April 10, p. 28.
New Illinois sales tax on utilities, Mar. 27, p. 25.
New Pennsylvania commission replaces regulatory body, April 10, p. 33; April 17, p. 46.
"Non-political" ballot defeated in Nebraska, April 17, p. 47.
Rate-inquiry powers remain with Nebraska commission, May 29, p. 32.
Telephone bills before Massachusetts legislature, Mar. 20, p. 16.
Utility bill passed by Texas legislature, May 15, p. 37.
U. S. Senate exempts communications from FTC bill, April 10, p. 30.
U. S. association's view on trade commission bill, Feb. 27, p. 26.

**Lightning:** Company not liable for death by lightning, Mar. 13, p. 29.

**Louisiana:** Refer to "Rate Cases" for Southern Bell case.

M

**MacKinnon, F. B.:** Dies suddenly,* Jan. 16, p. 11; a tribute, Jan. 23, p. 10; vacation snapshots, Jan. 23, p. 11.

Magnetic storm laid to unusual sunspots, Feb. 13, p. 18.

**Maintenance:** See "Plant."

**Management:** Psychology in telephone company operation, by George V. Gould, April 10, p. 9.

**Map:** Illinois publishes map of electric lines, June 5, p. 26.

**Metered service:** Successful in small Texas exchange, April 17, p. 52.

**Minnesota:**
Modern telephone facilities for Minnesota housing project,* by Leland Wright, June 5, p. 28.
Taxes of various kinds discussed by Minnesotans,* by Stanley R. Edwards, Jan. 30, p. 11.

**Missouri:**
Missourians are shown "whys and wherefores" (conv.),* by Stanley R. Edwards, June 5, p. 15.
Modern telephone equipment now serves Marshfield,* by E. R. Sears, June 19, p. 26.

N

**Nebraska:**
Change in securities company's corporate organization, Feb. 6, p. 18.
New automatic office in Lincoln, Neb.,* May 29, p. 18.
New Postal Telegraph office opened in Lincoln,* June 26, p. 14.
Telephone prospects and problems in Nebraska (conv.),* by H. T. Dobbins, Feb. 20, p. 14.
Refer also to "Commissions," "Courts," and "Legislation."

**Neon tubes:** Used on four-party lines, June 5, p. 25.

**New York:**
Hearing on FCC control of Jamestown (N. Y.) company, Jan. 16, p. 32.
New York Bell loses in toll compensation case with Jamestown (N. Y.) company,* Feb. 27, p. 9.
Telephone problems of Empire state,* by Stanley R. Edwards, June 12, p. 16.

**North Dakota:** 31st annual convention of association, June 19, p. 24.

O

**Ohio:**
Diversified interests keep Ohio telephone people active (conv.), by Stanley R. Edwards, May 1, p. 13.
Improvements and modernization of Oxford plant, April 10, p. 27.
Ohio Bell Telephone Co. rate case ruled upon by U. S. Supreme Court, May 1, p. 18; May 8, p. 30; May 15, p. 22. (For other references see "Rate Cases.").

**Oklahoma:**
Oklahomans hold biggest assembly of telephone folk,* April 24, p. 17.
Refer to "Rate Cases" for Southwestern Bell rate inquiry.

P

**Patents:** See "Gray Pay Station."

**Pennsylvania:**
Modernization of service at Birdsboro,* Mar. 30, p. 30.
Two-day meeting held of Pennsylvania telephone people,* May 29, p. 13.

**Physical connection:** FCC examiner's report on Poteau, Okla., case, Mar. 6, p. 38.

**Plant:**
Adjusting frequency ringers,* by Harry Chapman, Mar. 6, p. 20.
Guying the line,* by Robert W. Savage, April 17, p. 26.
Hand tools used in outside plant work,* by C. R. Moore, April 17, p. 17.
How to avoid kinks in messenger strand,* April 17, p. 44.
Making plant work easier,* by Robert De Vore, April 17, p. 15.
Modern line construction truck,* by Ray Blain, April 17, p. 19.
Pilot wires adjust cable current to temperature, Mar. 6, p. 33.
Revision of specification for pole treatment, Feb. 6, p. 20.
Transpositions in rural lines,* by Ray Blain, Mar. 6, p. 13.
Use of wrench vs. hammer bunkum, June 5, p. 24.
Wheel for measuring pole-to-pole spanlengths, Jan. 16, p. 27.
Wind, not sleet weight, breaks wires, Mar. 27, p. 20.

**Poles:**
Joint use of poles by telephone and power companies, by J. H. Padget, Mar. 13, p. 7.
Revision of specification for pole treatment, Feb. 6, p. 20.

**Protection:** Station and apparatus,* by R. V. Achatz, Mar. 6, p. 17.

R

**Radio telephone:**
Commercial service now available to China, June 5, p. 27; June 19, p. 27.
Service for the Great Lakes, May 29, p. 27.
Short-wave radio communication in British Columbia,* by B. R. Tupper, Mar. 27, p. 9.

**Rates:** See "Commission and court cases and rulings," "Federal Communications Commission," and "Rate cases."

**Rate cases:**
American Telephone & Telegraph Co., see "Bell investigation."
KENTUCKY:
Southern Bell investigation to resume, Jan. 9, p. 28; rate agreement ends litigation, Jan. 23, p. 29.
LOUISIANA:
Southern Bell's claim of confiscation not proved, court rules; cut valid, Mar. 20, p. 29; rehearing asked, April 3, p. 36; May 15, p. 32.
MINNESOTA:
St. Paul rate cut upheld by court, June 12, p. 28.
NEBRASKA:
Commission orders inquiry into Northwestern Bell rates and service, May 29, p. 25; formal order issued, June 5, p. 31.
NEW YORK:
Upstate corporation makes refund to patrons, Mar. 27, p. 28.
OHIO:
Ohio Bell accepts rate reduction order, Feb. 13, p. 24; special counsel, Jan. 2, p. 30, and Feb. 27, p. 32; delay denied, Mar. 13, p. 32.
U. S. Supreme Court rules against Ohio commission, May 1, p. 18; Ohio Bell case returned to commission, May 8, p. 30 and 36; May 15, p. 22; June 5, p. 31; June 12, p. 37; new commissioners study case, June 26, p. 27.
OKLAHOMA:
Hearing on Bell rates at Bartlesville, Okla., Mar. 20, p. 32.
Oklahoma City case appealed to Oklahoma Supreme Court, Mar. 6, p. 41; Bell petition claims property confiscation, April 24, p. 29.
Southwestern Bell plea asks state-wide rate inquiry in Oklahoma, Mar. 27, p. 25; May 1, p. 32; denied, May 29, p. 25.
TENNESSEE:
Commission to seek Southern Bell rate cuts, May 1, p. 33.
TEXAS:
Dismiss league's appeal in San Antonio, Texas, rate case, Jan. 2, p. 30; case goes to high court, Jan. 16, p. 36; supreme court refuses to review lower court ruling, April 24, p. 31.
WISCONSIN:
Wisconsin Bell appeal heard by court, Jan. 23, p. 31; Feb. 6, p. 14; Feb. 13, p. 26; Mar. 13, p. 31; Mar. 20, p. 26; April 3, p. 18; April 17, p. 47; testimony ended, May 15, p. 35.
Wisconsin statewide rate investigation ordered of Bell, April 3, p. 18.

**Records:** Trends in regulation emphasize importance of accurate records, by John H. Porter, June 5, p. 7.

**Refunds:** Fight for Illinois Bell refund residue, April 17, p. 38; May 15, p. 33; hearing, June 12, p. 28; June 19, p. 32.

**Regulation:** Hearing on FCC control of Jamestown (N. Y.) company, Jan. 16, p. 32.

**Reorganization:** Indiana Central company, Mar. 6, p. 43.

**Ringing:**
Adjusting frequency ringers,* by Harry Chapman, Mar. 6, p. 20.
Care and adjustment of frequency converters,* by Harry Chapman, Jan. 30, p. 16.
Neon tubes used on four-party lines, June 5, p. 25.

**Robot:** Spots telephone numbers often busy, June 26, p. 16.

**Rural:**
Fire insurance credits to rural subscribers,* June 26, p. 7.
Nebraska farmers signing contracts for electricity, June 26, p. 24.
Rural line rings—general and emergency, May 29, p. 20.

757938

Some aspects of rural telephone service,* by J. B. Mulrooney, Jan. 9, p. 14.
Transpositions in rural lines,* by Ray Blain, Mar. 6, p. 13.

**Rural electrification:**
And telephone companies (Wis. report), May 22, p. 22.
Illinois publishes map of electric lines, June 5, p. 26.
Joint use of poles by telephone and power companies, by J. H. Padget, Mar. 13, p. 7.
REA refuses modernization costs of rural lines, June 19, p. 31.
Rural electrification and local managers,* by J. W. Howatt, Jan. 30, p. 20.
Station and apparatus protection,* by R. V. Achatz, Mar. 6, p. 17.

S

**Sales:**
Sale approved of Long Lake (Minn.) exchange to Bell, June 5, p. 35.
Transfer of New York property approved, June 5, p. 31.

**Sales campaigns:**
Lincoln (Neb.) T. & T. begins spring sales campaign, May 22, p. 26; results above estimates, June 26, p. 24.
Successful campaign nearly doubles quota set,* Jan. 9, p. 20.

**Selling:**
Contacts and contracts, by L. M. Harrington, April 10, p. 15.
Who is your sales force? by J. H. Denkhoff, June 19, p. 11.

**Signaphone:** New type of telephone alarm instrument.* April 3, p. 28.

**Standards:** On electrical insulating materials, Mar. 27, p. 31.

**Storms:** Magnetic storm laid to unusual sunspots, Feb. 13, p. 18.

**Strikes:**
Operators strike in Ohio steel city (Warren), June 26, p. 13.
Tobinsport, Ind., operator strikes because of not being paid, April 24, p. 28; May 15, p. 26.
Stromberg-Carlson's 31st annual sales conclave,* May 15, p. 28.

**Switchboards:** Operating pilot light on a drop switchboard,* by J. T. Kilmer, Mar. 6, p. 34.

T

**Taxes:**
Extension of time on unemployment tax, Jan. 30, p. 24.
Illinois utilities sales tax held unconstitutional, Feb. 20, p. 27.
Local appraisals for taxation opposed (Mass.), Mar. 27, p. 27.
New Illinois sales tax on utilities, Mar. 27, p. 25.
Pacific T. & T. Co. protests assessments, June 19, p. 35.
Seeks abolition of excise tax on copper, Mar. 20, p. 27.
Southern Bell tax suits dismissed, April 10, p. 33.
Washington state tax law held unconstitutional, Feb. 13, p. 33.
Wisconsin Telephone Co. asks to pass on new surcharge tax to public, Mar. 13, p. 31; hearings, Mar. 27, p. 26; June 19, p. 33.

**Telegraph:** Overnight rates cut, May 29, p. 24. See also May 8, p. 37.

**Telephone:**
Annual review of the telephone industry,* by Stanley R. Edwards, Jan. 2, p. 9.
Bell telephones surpass previous high in 20 states, May 8, p. 24.
Most complete telephone library in country (Calif.),* Jan. 16, p. 22.
Protect bank with telephone in vault, by B. A. Parsons, Mar. 6, p. 36.
Telephone system of U. S. Department of Interior, April 3, p. 29.
U. S. has telephone line higher than in Andes, June 19, p. 29.
World wire system now streak of rust, June 26, p. 26.
World telephone statistics released by A. T. & T. Co., June 26, p. 24.

**Telephone alarm:** Signaphone, new type of telephone alarm instrument,* April 3, p. 28.

**Telephone service:**
Elkhart, Ind., operator heroine in two emergencies, April 24, p. 27.
Fitting service to requirements, by Maurice C. Burritt, June 12, p. 9.
Long distance service in the flood areas, Jan. 30, p. 22.
Plane-to-ground service next month, June 19, p. 29.
No wrong telephone numbers on huge air liner,* Mar. 13, p. 21.
Some aspects of rural telephone service,* by J. B. Mulrooney, Jan. 9, p. 14.
The great flood in Ohio Valley,* Feb. 6, p. 9; Feb. 13, p. 18.

**Texas:**
Celebrate completion of New Hamilton plant, April 10, p. 26.
San Antonio rate case, see "Rate Cases."
Texans discuss new problems (conv.),* April 3, p. 12.
The uneventful life of a trouble-shooter,* by Doc, Mar. 6, p. 32; April 17, p. 42; June 5, p. 24; June 26, p. 16.

**Toll:**
FCC jurisdiction involved in toll line construction (Texas), Mar. 27, p. 24.
New York Bell loses in toll compensation case with Jamestown (N. Y.) company,* Feb. 27, p. 9.
New Ohio toll interchange contract approved, April 3, p. 18.
Southwestern Bell wins in Little Rock, Ark., toll case, May 15, p. 32.

**Tools:** See "Plant."

**Traffic:**
Are you an asset or liability to your company?* by Anna Hammen, Jan. 16, p. 9.
Do you find happiness in your work? by J. J. Mason, May 22, p. 11.
Don't be impatient with the telephone operator, April 10, p. 27.
"Information" gets printed directory addenda daily, June 5, p. 26.
Operator on flood duty 3½ days and nights, Mar. 6, p. 35.
The builders of customer good will, by Margaret Rustan, Mar. 13, p. 16.
The destroyer of public good will, by Kate M. Thayer, Mar. 13, p. 16.
The operators' corner, by Mrs. Mayme Workman, refer to "Authors' Index."
Yesterday, today, tomorrow,* by Anne Barnes, June 5, p. 22.

**Transpositions:** In rural lines,* by Ray Blain, Mar. 6, p. 13.

**Tree trimming:** Some safety hints, by B. E. Hardin, p. 44.

**Trucks:** Modern line construction truck,* by Ray Blain, April 17, p. 19.

V

**Vail awards:** Vail medal awards for noteworthy service, June 19, p. 30.

**Vacuum tube:** Bell develops ultra high frequency tube, Jan. 16, p. 24.

**Voice:**
New York company issues pamphlet on telephone personality, Feb. 13, p. 11.
Test voices for radio by telephone, Mar. 27, p. 16.

W

**Washington:** Telephone statistics compiled by state, May 8, p. 34.

**Wisconsin:**
New Independent association formed, Feb. 27, p. 15; organization meeting, Mar. 13, p. 38.
Report on rural electrification and telephone companies, May 22, p. 22.
Telephone industry progressive in Wisconsin,* (conv.), by Stanley R. Edwards, May 1, p. 21.
Wisconsin Telephone Co. rate cases, refer to "Rate Cases."


## Authors' Index


**Achatz, R. V.:** Station and apparatus protection,* Mar. 6, p. 17.

**Ackmann, Zina:** Rural collections,* Jan. 30, p. 7.

**Agee, John H.:**
Foreign "travelogue" to telephone friends (Montreal),* June 26, p. 10.
The national association and national affairs,* May 8, p. 9.

**Barnes, Anne:** A baker's dozen, Jan. 23, p. 16; always new horizons, April 3, p. 18; b-u-t . . . May 8, p. 37; doers and onlookers, Mar. 6, p. 30; Happy New Year! Jan. 2, p. 13; master or servant, May 15, p. 15; memories, Jan. 16, p. 17; n-o-i-s-e! June 26, p. 9; oil of kindness, April 10, p. 14; permanent facial make-up, Jan. 9, p. 27; pins, Feb. 13, p. 20; public opinion, Jan. 30, p. 8; salt, June 19, p. 28; selling points, Mar. 13, p. 28; sizing up, Mar. 27, p. 13; ten valuable hints, Mar. 20, p. 29; the value of friends, June 12, p. 15; two sides to a question, Feb. 20, p. 10; vacations, May 22, p. 12; what is work? Feb. 27, p. 26; "when lines are down," May 29, p. 9; windows, Feb. 6, p. 11; worry, April 17, p. 53.
Yesterday, today, tomorrow,* June 5, p. 22.

**Berry, Loren M.:** 17th anniversary of the Independent pioneers,* June 19, p. 22.

**Blain, Ray:**
"I wonder why" of a telephone engineer,* Jan. 16, p. 27; Mar. 6, p. 32; Mar. 27, p. 20; June 5, p. 25; June 26, p. 16.
Modern line construction truck,* April 17, p. 19.
Transpositions in rural lines,* Mar. 6, p. 13.

**Brown, Thad H.:** The Communications Act, May 15, p. 9.

**Burden, B. C.:** "Telephony's" engineering data, see "Data Sheets."

**Burritt, Maurice C.:** Fitting service to requirements, June 12, p. 9.

**Chapman, Harry:**
Adjusting frequency ringers,* Mar. 6, p. 20.
Care and adjustment of frequency converters,* Jan. 30, p. 16.

**Crowley, J. C., Jr.:** What do we do?* Feb. 13, p. 9.

**De Vore, Robert:** Making plant work easier,* April 17, p. 15.

**Denkhoff, J. H.:** Who is your sales force? June 19, p. 11.

**Dobbins, H. T.:** Telephone prospects and problems in Nebraska,* Feb. 20, p. 14 (Program, Jan. 30, p. 24).

**Eberle, George J.:** Commercial survey needs of moderate-sized telephone companies: Part IV,* Jan. 9, p. 7; fifth and concluding article, Jan. 23, p. 7.

**Edwards, Stanley R.:**
Annual review of the telephone industry,* Jan. 2, p. 9.
Diversified interests keep Ohio telephone people active,* May 1, p. 13.
Hoosiers flock to state meeting, May 22, p. 18.
Missourians are shown "whys and wherefores,"* June 5, p. 15.
Progress, keynote in Iowa,* April 24, p. 13 (Program, April 3, p. 8).
Taxes of various kinds discussed by Minnesotans,* Jan. 30, p. 11.
Telephone industry progressive in Wisconsin,* May 1, p. 20.
Telephone problems of Empire state (N. Y.),* June 12, p. 16.

**Gould, George V.:** Management psychology in telephone company operation, April 10, p. 9.

**Hamilton, Wm. R.:** Communication for emergency power system operation, Mar. 20, p. 9.

**Hammen, Anna:** Are you an asset or liability to your company?* Jan. 16, p. 9.

**Hannibal, E. R.:** FCC accounting system an aid to public relations,* Mar. 20, p. 15.

**Hardin, B. E.:** Some safety hints when trimming trees,* April 17, p. 44.

**Harrington, L. M.:** Contacts and contracts, April 10, p. 15.

**Harrison, H. H.:** Mathematics for telephone engineers,* article 7, part II, Jan. 23, p. 12; article 7, part III, Feb. 27, p. 16; article 7, part IV, Mar. 13, p. 11; article 7, part V, April 10, p. 18; article 7, part VI, May 8, p. 14; article 7, part VII, May 29, p. 10.

**Howatt, J. W.:** Rural electrification and local managers,* Jan. 30, p. 20.

**Kendall, Philip:** Do people read telephone directory advertising?* April 3, p. 7.

**Kilmer, J. T.:** Operating pilot light on a drop switchboard,* Mar. 6, p. 34.

**Mahoney, H. P.:** Equipment interconnection in Ciudad Trujillo, Dominican Republic,* Feb. 20, p. 22.

**Mason, J. J.:** Do you find happiness in your work? May 22, p. 11.

**Moore, C. R.:** Hand tools used in outside plant work,* April 17, p. 17.

**Mulrooney, J. B.:** Some aspects of rural telephone service,* Jan. 9, p. 14.

**Padget, J. H.:** Joint use of poles by telephone and power companies, Mar. 13, p. 7.

**Parsons, B. A.:** Protect bank with telephone in vault, Mar. 6, p. 36.

**Porter, John H.:** Trends in regulation emphasize importance of accurate records, June 5, p. 7.

**Rustan, Margaret:** The builders of customer good will, Mar. 13, p. 16.

**Sage, B. R.:** A temporary repair that is easily seen, Mar. 6, p. 34.

**Savage, Robert W.:** Guying the line,* April 17, p. 26.

**Schaphorst, W. F.:** Use of wrench vs. hammer bunkum, June 5, p. 24.

**Sears, E. R.:** Modern telephone equipment now serves Marshfield, Mo.,* June 19, p. 26.

**Spahnle, H.:** Why the commercial department? May 1, p. 9.

**Taylor, W. G.:** Lithuanian capital has modern telephone equipment,* Mar. 13, p. 24.

**Thayer, Kate M.:** The destroyer of public good will, Mar. 13, p. 16.

**Tupper, B. R.:** Short-wave radio communication in British Columbia,* Mar. 27, p. 9.

**Welch, Francis X.:** In the nation's capital, Jan. 2, p. 22; Jan. 9, p. 11; Jan. 16, p. 16; Jan. 23, p. 15; Jan. 30, p. 9; Feb. 6, p. 12; Feb. 13, p. 12; Feb. 20, p. 11; Feb. 27, p. 13; Mar. 6, p. 18; Mar. 13, p. 9; Mar. 20, p. 13; Mar. 27, p. 14; April 3, p. 9; April 10, p. 12; April 17, p. 34; April 24, p. 11; May 1, p. 11; May 8, p. 17; May 15, p. 15; May 22, p. 13; May 29, p. 7; June 5, p. 13; June 12, p. 13; June 19, p. 16; June 26, p. 11.

**Workman, Mrs. Mayme:** The operators' corner, Jan. 9, p. 13; Jan. 16, p. 12; Jan. 23, p. 22; Feb. 6, p. 26; Feb. 13, p. 11; Feb. 20, p. 13; Feb. 27, p. 12; Mar. 6, p. 16; Mar. 13, p. 14; Mar. 20, p. 12; Mar. 27, p. 16; April 3, p. 11; April 10, p. 16; April 17, p. 38; April 24, p. 24; May 8, p. 29; May 15, p. 27; May 22, p. 26; June 5, p. 12; June 12, p. 12; June 19, p. 14; June 26, p. 15.

**Wright, Leland:** Modern telephone facilities for Minnesota housing project,* June 5, p. 28.